Inaugural Elsay, Haemofstysis. by John G. Marshall Lebenon Bennoylvania Member of the Philadelphia Medical rociety Submitted to the examination of the Trustees and diedical Professors University of Linnsylvania. the segree of Doctor of Medicine October paper. March b. 1019

370 Willes Hand hall

Treface.

In compliance with an indispossible duty resting upon me, as a candidate for the degree of belong medicine, I submit with disfidence, the following pages, to the examination of the decical faculty of the University of Innerelvation

The subject I have selected for my disportation is starmoptysis; a subject, which I could wish, though it cannot hope to treat it in a manner corresponding to its importance.

to its importance.
In endiarouring thus to discharge, an indispensible duty,
I feel conscious that I stand in need of indulgance.
I however feel a corresponding apurance that I addry
men of liberar in minds, even are fully account that youth,
ful inexperience, is not likely, in the first effort, to
produce any thing either very expellent or important.
Whatever may be the month of the following pages;
I arm compelled to abtread them; claiming that
in clulgance which the Figro has a right to await
from the more experienced uterase of science.

The author

attend a supplied with a count man the the state of buildings our sould be been post

Haemostysis.

Mest to epistagis, bleading from the lung is the most foregreent hemorrhageter Inducts, whenever reflect on the dige and member of blooderful subring the lungs and on their minute ramifications, being delicately disposed on the surface of the air cells; and involved in a cellular subtance, that can admit of but little resistance, the frequency of Pumorrhage Years that viseus cannot be wondered at:

It is not always easy to accordain the source of the homosphage, when the blood is discharged through the mouth. When, he course of the some affections of the hongs, bloods is brought up by weighing, there can be but little doubt, but what it comes from the temps. Frequently eases are mot with what it was it will be needed to take into consideration, a comicity of circumstances, to make us to determine, whither it preceds, from the faces, the adjuming outlies of the nose the stomach or the long. It among the stomach or the long.

by the blood in the latter being of a darker when, grumous and mixed with the other contents of the stomach; attended with pain anxisty, and a stomach; attended with pain anxisty, and a stomach; attended from the stomach et is uniformery chick arrespect by a strong offert of counting, and not by coughing, as when proceeding from the langs. In this latter case, the blood aphibit a floride colour; imposite a soline taste to the tongue, and is mixed with a pathy mercus. It the tongue, and is mixed with a fact present as for langs, and selection attended with a free from the beyond is for the most paid tonget to the wood is for the most paid tonget to the paid to county form. The beyond is for the most paid to one of the wood is for the

ment part brought up without roughing, and by inspection, we sometimes have it in our parameter detect the becading repets. Occasionally however, there is considerable difficulty in ascertaining who then the becading proceeds from the facuses on account of the bleeding what lying for back. In such cases, the spot from which the homorrhage proceeds

proceeds can not be brought into view; and the block imitating the glotter, produces a weigh by which it is made to resemble a harnefityer. In a case of this kind, we must found our diagnosis on the nature of the occasional causes, and whom the absence on presence of the symptoms of hasmopting; that is we must observe whether to cae pain in the breast be forcent, whethen the board discharged he block made partly coaquated, or whether to exhibit a bottly convenience of presence. In the will be a bottly or members of presence.

In the activity of harmoptifue a particular negarite much in the first place be have to the precipantion, which may ordered in the system to it. There are few other forms of clicase, in which this preciparities is more evidently neticased than in harmopty is. It consist, in an exceptive invitability and sensibility of the whole executer system; which is particularly conspicuous in the lungs and in the respiratory organs in general; combined with organic weaking of these parts. This condition of the system is most prequently entirely from

of the explore is much free into a track .

parent woon the offspring. It is cometimes however acwined after linth. In the first care the predisposition depends upon what has been salled physical conformation Malionformation of the thorax constitutes one of the most conspicuous causes to himorrhage from the lungs. Turons predisposed in this way, are generally of a semquine temperament; of a happy ginine ; very imitable : profrienate and active, though siletem whable of much perseverance, in either physical on mental exertions. The hair and complesion is fair, the eyes mostly blue, the skin white and roft; the checks and lips are beautifully sed; teeth of ten as white as milk; a fine and somewhat shrill voice: a projecting larget 8- 8-8. Certain trades often act as predisposing causes to Laumoptyies. Taylors, Thormakers. 10 avers, Chimits &: one more subject to it (carteris paribus) than men

cue more subject to it (caretures parelus) them mer of other emblogments. Among the other causes which irredulpose to this dispare may be nechrical sudden ments about the age of puberty, in him personce



in eating and drinking, blithers, subpression of some customary evacuations, repelled irrelations, tubercles of the lungs catarrh 4. 4.

Halmophysis may arise at any period of life; all though it more frequently offset the young than the also. It exciting causes, are; a timulating popious, efternal victure, victual sportions of the tungs; as in singing, laughing, hallowing and blowing winds instruments. Indeed implitude from heat to well, and evice versa, diminution of the wight of the atmosphere, especially when concurring with experies; and great heat or 's repure from cetters.

Symptoms

of aemorphies is devoticed by Lactor Creter into active and policies. In the owner the externe system is in a start of increased, and in the atter in a start of exercised existencent. He activated Richten has added a third, which is each templifyin theometics;



Dum however of the opinion, that this division of Richter is not attended with my practical utility; at al-worts, it does not seem to lead to my new or more succeptule mode of treatment: than that which is deducible from the division given by bullen. The disease sometimes comes on with a serve of weight and anxiety in the breast: more or lop pain in the breast, some unedsings under the sterneum, and Trequently, a saltish taste is perceived in the mouth; a degree of irritation is feet about the upper part of the larget, which occasions how king omet wughing, and blood of a florid sed whour is brought up, producing a noise similar to ein profound through a fluide. let other times its fait stage is whered in with with shiverings, wheness of the extremetic, pains in the back and time, costwerely, Hatulener on? apitude. The blood brought up at first, is generally in small quantities, and cause but very little unearing rule. At other times however it appears moderally, and in large quantities, from the very first



common commont; not jorceeded by the promontary symptom. The prules in this shale of the disease, is pregent, such and times; corretiones faile and round, but small trade

The blending seldom takes place to such a degree, as to prove father at once but if the discuss has continued for any lingth of times, or the discharge been project; the patient bleames small and frequent the difficulty of breathing continues to an alamining alegne; the strongth of the patient, business or early diminished, the face pate to often with symple tremers, convocations, and losty death.

He aeros him from the lings are dangerous in proportion to the causes which bring them on, the egg of the vehel reptured the state of the constitution of the patient; and the means which are employed to check it.

When from acute in flammation of the lungs if not in large quantities, it seldom proves fatal; but on the contrary of the terrimates forwardle: the lungs relieving themselves, of the violence of inflammation

. 4 47 9 with digital and a second and a

When from metastases, as from subrelier of remarkon, or entamories; it uldom proves dangerous un tels the himsorthage is profuse and of some continuence. When from tubercles, it generally terminates into phthisis pulminalis.

Metrode of Gune.

In the treatment of himorray from the lungs, we must be guided by the state of the system. When therefore we are called to a patient; we should fint endeavour to ascertain, whither the himorrhage be of the active or papire limes; or in other words whethen the fratient tabours under a sthemin, or asthmin diathesis. The remedies to be employed in this disease may therefore be divided under two heads; such as are proper in its extrace; and such as are suitable in its popiose state. If in a case of Lemorrhage from the lungs, we find the potents shim Let; if he is fewerish, with a hard and frequent pulse; we must treat the disease as a otherin case, and use bleeding from the arm, on even jugular

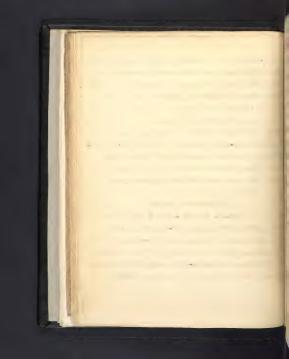


vein, promistly and adjounts. In the use of sceneration, we must here, as in all ather cases he governed by the state of the pulse, and repeat it as often as the system will be as it, in the the symptoms are relieved.

In addition to beesting, we must just our patient upon a general outphlogisti regimen; he must be strictly forbideless to talk to be kept in a quist ones cool chamber; and if a courp be present, evigonitating pertoral medicines must be apprehenced. After these remedies, or even in conjunction with them, we may resort to the use of detringents.

Common Sact.

We are indicated to the cate society Rush for the introduction of the remedy into regular practice. It may be given in closes of a tablesprompule, and repeated as of times is neighbory. It seems to act on the facus, and offend it action to the bromshoe suffels. It is heat given in a very state.

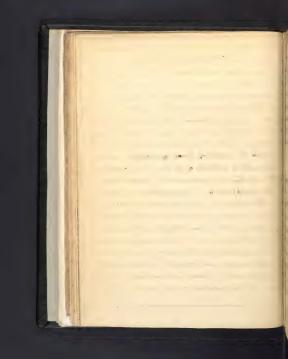


Cold applications.

Do to- Darwin mentions, & One immerior in cold water, or a milder o'renkling all over with we water, would probably stops a pulmonay remortye! This is purhaps ventoring this far with respect to the cold applications. Nevertheles it must be confixed that well of plications, in their proper time and place are invaluable remedies in cheeking himorrhage. Elother dipped in wede water, and applied to the thorax, afilea. emd sistem; is productive of very beneficial effects. It should however never inforced venesation. Wilmot and Burriews recommend large changet of well water; the wedness of the water is to be gradually increased , untile ever pieces of of ice are mollowed. I believe however, that whole applications to the gentals 95 is the most effectual mode of auguining the benefits of a tow temperature.

Saccharum Saturni,

This is an article, that stands in high repute as a medicine, in checking hemorrhage. To the late Do ton Barton, the moret is due for the restoration of this mediine. His apparence was very extensive with it, and sheaks in highly in fewour of this medicine. It mentions "In many cases of such bleeding, but especially in those from the Uterus, intestines and lungs, I have exhibited the acetate of lead, generally in combination with a pittance of openin, and sometimes with a portion of Specacuanha. Seleson have I been dis appointed in my expectations of benefit from the madicine, which of all the articles of the materia medica, seems to me to pour the greatest command over the movement of the arterial system. In no instance have I perceived any dangerous effects, smel rarely any temporary in consenience. from the employment of leads? The best made of giving the accelai of lead; is to combine it with openin, in the proportion of two grains of the



former, with half a grain of the latter. It does may be exhibited; and repeated very one, two an three hours, according to the urgancy of the case; untile the bleeding is checked. The above does may however safely be increased; if the case domand it without for during any deletimous effects. Reoferon Experient tells us that that given it to the extent of one couple at a doese without my had effects resulting from it.

Emelies

Elthough cases are on neveral; where opentaneous vormiting, has cured ahomorphage from the lungs; yet practioners seldom amplay them in the active state of the disease. Dotton Euclien whom the authority of Borgen Dobinson exhibited another in several cases of harmosphips with a downtage. In one case it in occased the homorphage to such an alamming cliques as to older him from further trials of them. In slow homorphage, they may however be employed with a dwantage; and especially when it occurs



From tubules. Eithough in chronic haemophysis emeters may of the prome burdicerl; it can not he doubted that in acute bleeding from the lungs, they must be generally congerous; and aught therefore, unless the indication to their use be very strong, never to be employed. When the emetin remedies prove occasionally serviceable in acute homorrhage I believe it always defounds upon their noweating effects. Foctor diosely relates moral cases, in which his ortholic solution administered, in nauseating doses every eight hours, produced the happiest effects. The advantages of this madicine, in the cases mentioned by boctor Moseley, were un doubtedly owing in part to its astringent virtues; its producing nausea, also contributed to the same beneficial end. I'selaluanha combined with opium; profesor Chofomoun informs us, is our invaluable semedy; not only in this of seies of homorhage; but also, in utime hemorrhage. The medicine is to

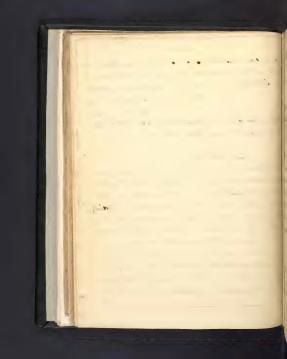
to be administered, so as to keep up constant named but not to in duce vomiting, as it might proceed mischieveous. The booters proceedition is as follows, By Rulin Greenwonth is go

-- Chium : 90

Mf either given in powder or made into a pile, and repeated every two three or four hours.

Digitalis

This article, is by some writes, accommended as a valuable remedy in hamptysis. Easter Forrian has the highest opinion of this meeticine in the cure of hamptyse. It sometis prover of diministration and writer access be productive of good effects. Dichter speaks forwardly of this medicine. It is que it means matter with opium and calesnet, and says that he has often invived considerable advantage from digitalis given in this way. It absences that the more wideness of the speamed in this way.



less accomtageous is this mediume. His formu-

Ealomee

Pulvis digitalis a a X gr

M. fl. dividences in Northlow No. X one of which is to be given every hour or two.

Blisters

After bleeding, believes are important remarker; they have been officacious in this cliences, by directing marked a catemant from the lungs, to a point leep executive to life. Io me recommend them to be applied to the neck, or correct; but the most proposer place, is perhaps, to apply them over the cheet; as the act in proportion to their proximity to the part

Opium.

When, the bleeding is agravated, and leept up by to ughing of few, accommissioned in small one repeated closes, is an invaluable remedy, in



himourhage from the lungs. Blickter, and the generality of the late modern german authors, recommendo, the extract of hyssiamus in proference to your. It is ordered by Hoffman . B grains every hour. Various other remedies are recommended, by different conitro, in the cure of harmophysis; such as neutral Bals, natrate of patrish & . Witrote of patach is per hops the most effectual. Doctor Coldwell mmtions notice given in large doses, in combinatwo , with one sixth, on eight of a grain of tartariga intimony, is very beneficial in Facmospitysis. It artinan , recommendo netre in this disease in the highest terms of this mode of 4 hibiting it, is to make a saturated volution of notre in bramely. The dose is a tablespoon full every half hour. Sulphuric acid, in closes of leasty drops, of time repeated; I have been informed, has in some cases had a very happy effect i - chaking homorhage from the lings. The phosphore and has

e e b t . . . J. 1 15 6 . 7 also been highly recommended (Huglands bourned page 173) in the cure of harmoptysis - The formula in the above quoted work is this

Oy acid phosphon 31 agua fend distil. 3fs Syr. erranor: nigron 34

m.f. from 10 to 30 drops every 15 minutes.

I care from its effects in cleareasing the action of the heart, and arteries, from this propion in troughting the place of berod from a view in the propose it to be beneficial in checking homomorphisms from the bungs, but as ever cannot requilate it in its effect, of several in a commission of the considered it as an arminguous remedy in the observation it as an arminguous remedy in the

Throughout the whole come of our treatment in this form of the disease, we must enjoin vert and the shouldess remembat alwated; conversation should be avoided, the bowers should be left



in a note able state without active purging; and the patient should be lightly covered with back clothes.

Papire herrorrhage from the lungs. If we the indication is to restore to the lend vehile. Among the first numerical is opinion. The store must be assomedated to the state of the system, and repeated. The record dose should always be given before the first has lost it in fluence.

Borwian bark will be found a valuable romedy in this form of the disease Given ather alone, or combined with incre.

Borter is said to have cured Laconoptizes abone; it is highly entilled to our notice, as being a liquid which the stomach retains when all others are offension to it.

Sulphuri acid administered in maccelous, and often repeated, either alone or in combination



with some of the above mentioned articles; or in the form of Eliping vitible seems to answer well in the form of the disease.

Root come, when it does not prove diagreeable to the stomach, may be administered and with a happy effect.

There remedies are to be a cited by moderate exercise; a light now is hing dict, the patient should eat of ten, and but little at a lime that an execuber excitement may be part preserved in the stomach, and the system not suffer from atternate and inantion of that viscus.

I will now subjoin a case of homomore from the lungs, which came under my notice.

Cesse.

I. In A young man aged about nineteen, and of a plettoin constitution, on the he my award of I among 1818 came to me and informed me that he had been subject to several beening from



the lings; and that he feet the came symptoms at that time, which preceded the previous bleedings from the tungs. Efter examination I found his pulse active, his Lowels costive and he complained of some difficulty of breathing a slight pain in his head 4: 9: I imediately drew from his arm fourteen owness of blood, and gave him a dose of Epsom valts. I saw him next day he informed me he felt much better, his pulse was natural; I now gave him the dovers prowders in order to eletermine to the surface and equaling the circulation, directed him to abstain from all kinds of stimum lating food and drink, avoid all violent exartions of the lungs and to take moderate exercise. On the 24th I saw him again he was now much better; his difficulty of breath. ing and hain in the head had all subsided; his bowels were regular, and all other symptone had left him. I now requested him to



pery strict attention to his morner of living to avoil all Kinds of except and occasionally to take a purge. which he continued to do for sometime; untill he considered himself out of all danger, and after wards neglected it. He untimed well untile towards the latter part of march, at which time he was attacked with a cough, which gradually increased in violence. On the 25 th of march in the night he was attacked with a violent spasmodin cough, and straining of the lungs; this after some continuence lamght on bleeding from the lungs. I saw Lim about four hour after the bleeding Lad made its first appearance; during which time he had lost nearly three pints of blood; ems the bleeding stile continued to an alarming degree, and threatened the speedy death of the patient. I found his pulse active, I imediately drew from his arm twelve our ces of blood; and gave him two grains of the



bugar of leads, combined with half a grain of of opium. In Lass an hour I repeated the medicine and took eight ounces more blood from his arm. I now applied rags dipped in cold water to his oursturn and axilea. The bleeding now gradually diminished, and his pulse become slow. Two Louis after the last dose, I gave him another and repeated the cold applications; by this time the beesding had nearly ceased, and in one hour it stopped intiety. I now took off the cold applications, and applied a beister over his breast; I of owe him another dose of the lead ond opium, and lift him a dose to be taken in four hours. 24 th I saw him again, builing had not returned, and his worsh was remembert relieved. I now gave him for his wough 30 drops of liquid landanum, and directed him to take during that day two doses more of the Comdonum, on I one dose of the acetate of lead and opium. 28th His cough

Final serve in Proces Brown down to Terranak philade many int the la

much relieved, and feet in every respect better. He now only complained of useakings, he was now allowed some light now withing diet, and and slineated to take 20 eloops of landanew with as many of awar spirit of notice beautimes a clay - and other remedies user presentines a clay - and other remedies user presenting to restore his straight, which was acomplished to restore his straight, which was a morphished him a short time. I now directed him to take occasionally a cooling purge, which he clieb; and nover had a return of the himorrhage, but remained well user since.

I have thus concluded a short epay on the causes and cure of harmoptysis, as it was a matter of neapity, and not of choice the imperfections; I hope, will be viewed with on eye of liberal includence. se but remained well vier ince tion reformed paint from